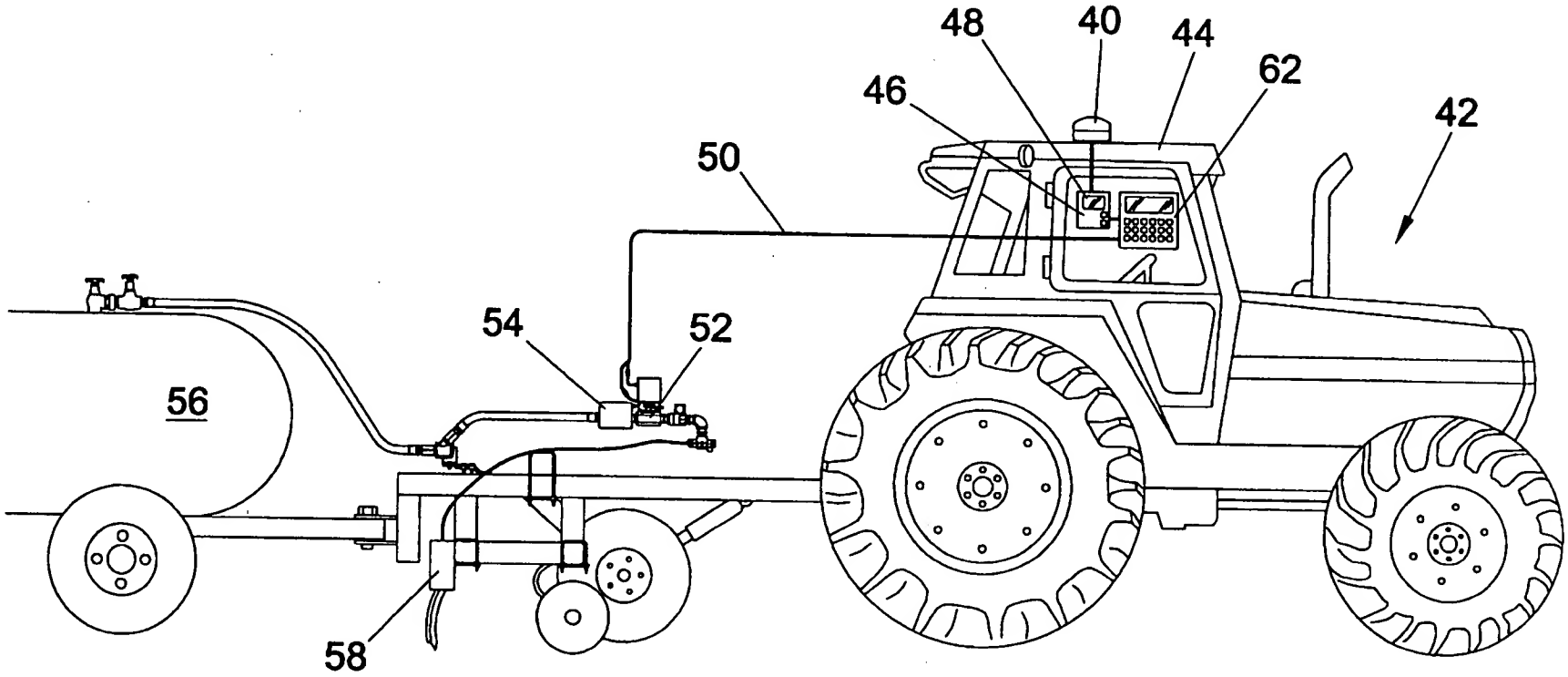

Fig. 1

EP 2 217 947 B1

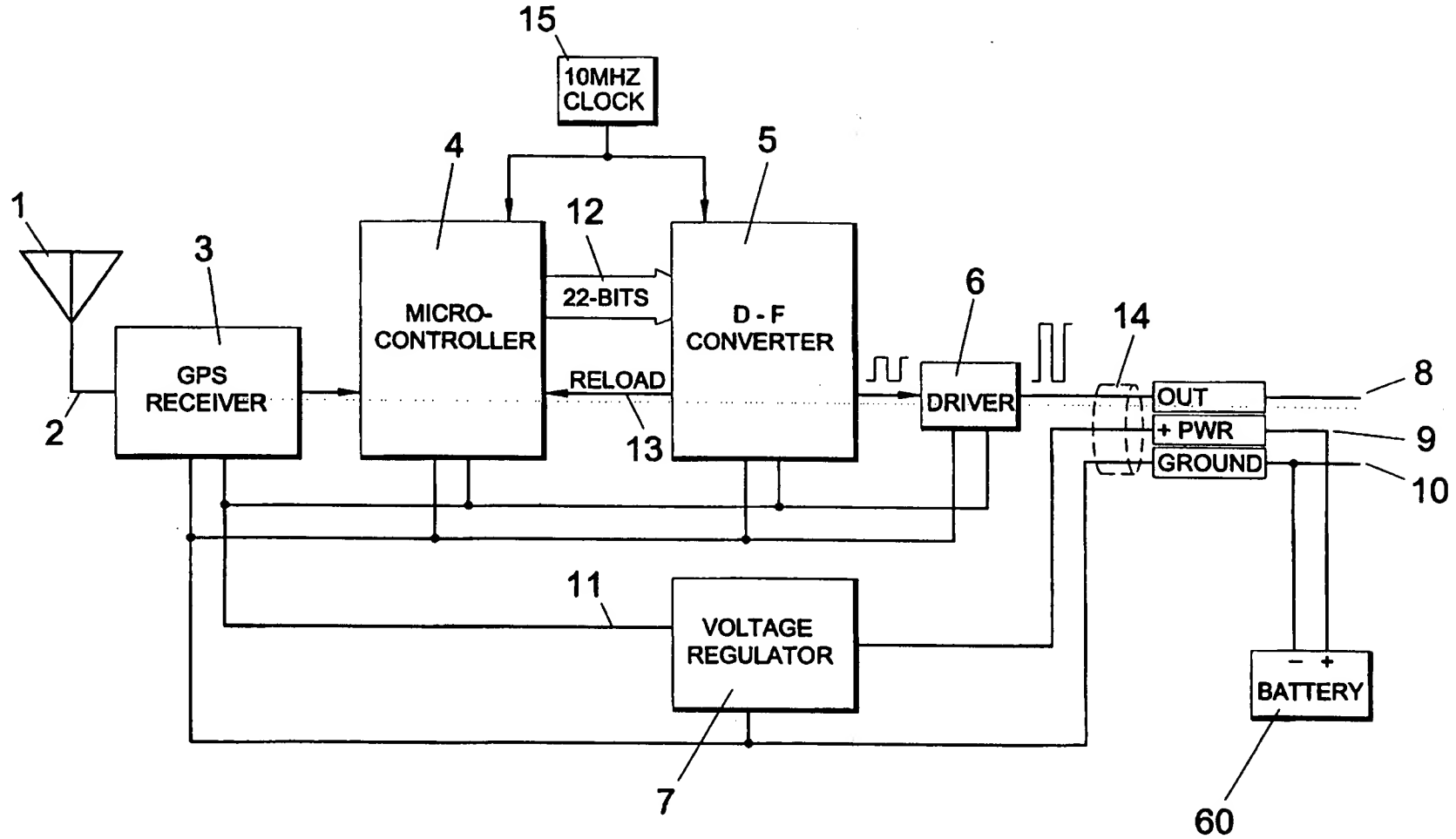

Fig. 2

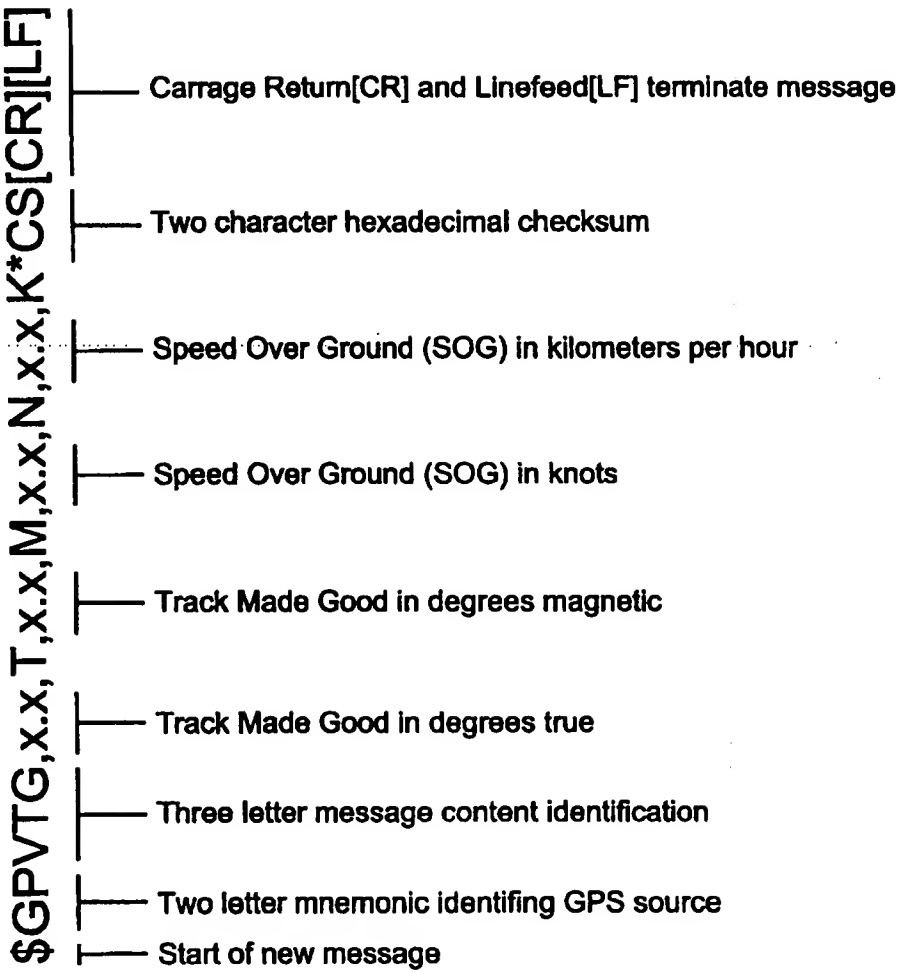
$GPVTG,x.x,T,x.x,M,x.x,N,x.x,K*CS[CR][LF]
Carrage Return[CR] and Linefeed[LF] terminate message
Two character hexadecimal checksum
Speed Over Ground (SOG) in kilometers per hour
Speed Over Ground (SOG) in knots
Track Made Good in degrees magnetic
Track Made Good in degrees true
Three letter message content identification
Two letter mnemonic identifing GPS source
Start of new message

Fig. 3

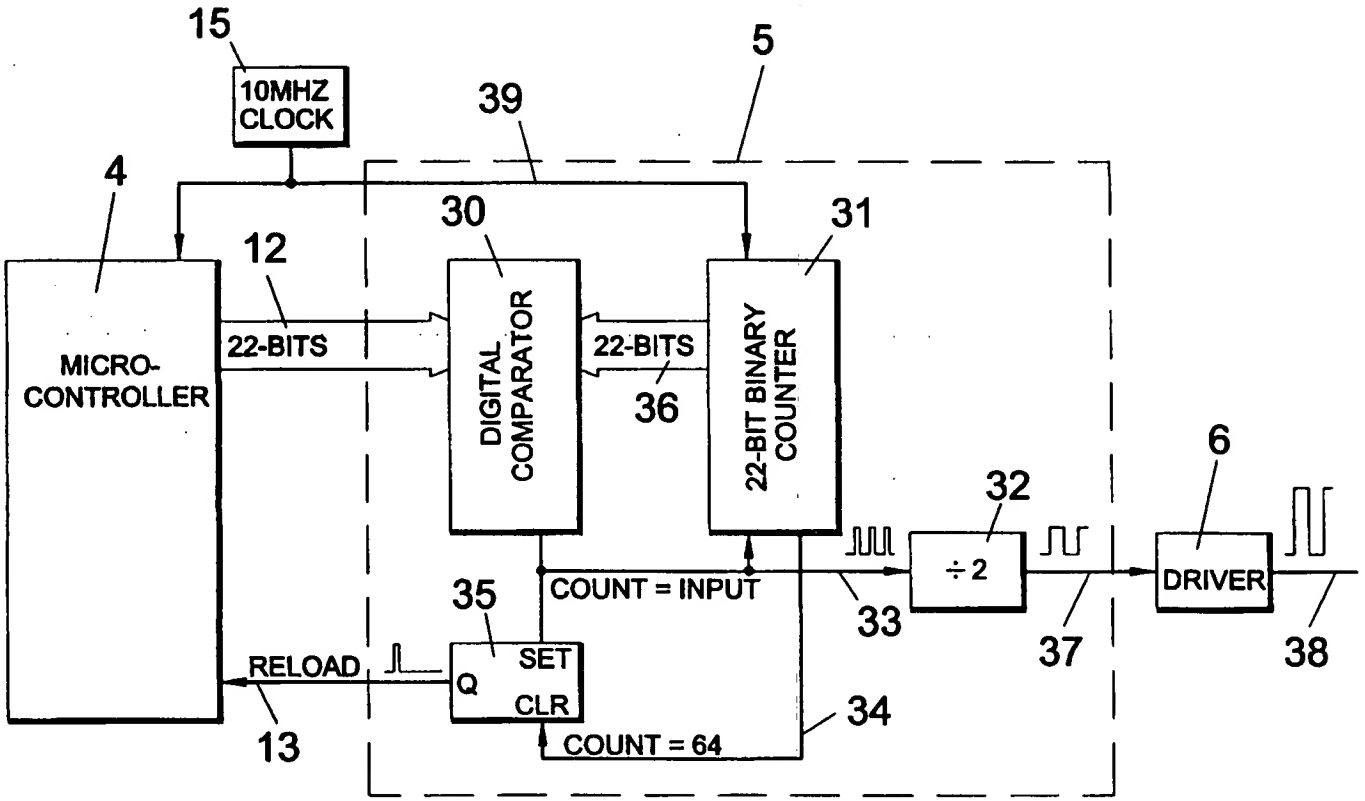
15
10MHZ CLOCK
39
5
4
30
31
12
MICRO-CONTROLLER
22-BITS
DIGITAL COMPARATOR
22-BITS
36
22-BIT BINARY COUNTER
6
32
÷2
DRIVER
COUNT = INPUT
33
37
38
35
SET
Q
CLR
RELOAD
13
COUNT = 64
34

Fig. 4